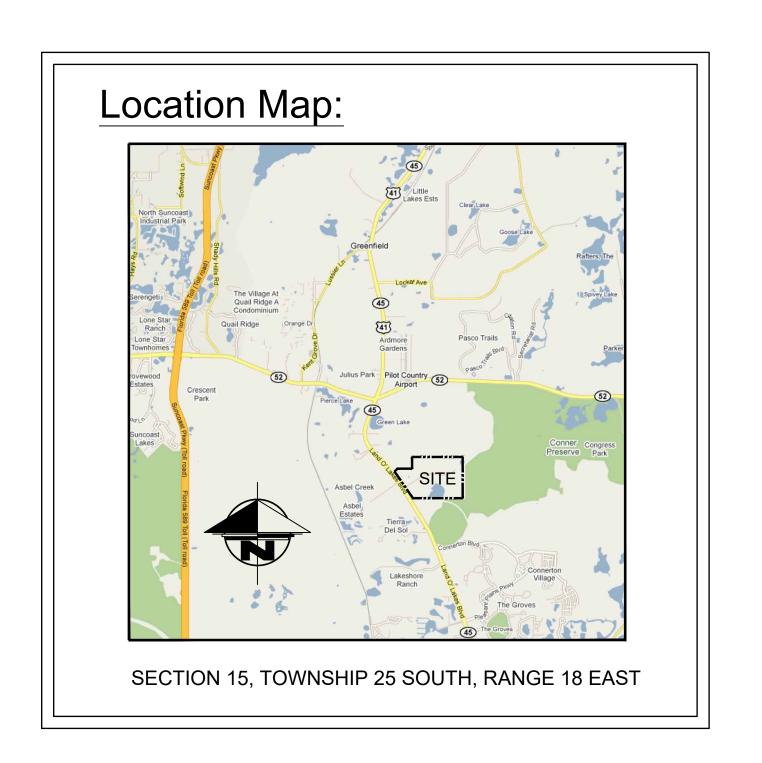
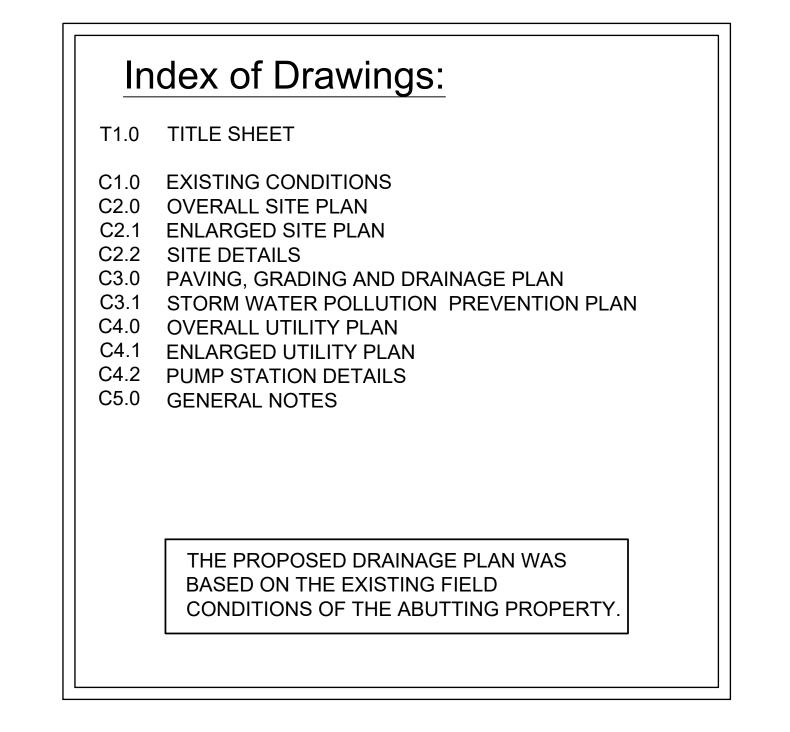
# Pasco County Sheriff's Office

## Forensic-Training-Shoot House-Hangar Lucy Dobies Court - Land O' Lakes, Florida 34637

PRELIMINARY SITE PLAN / CONSTRUCTION PLAN / STORMWATER PLAN AND REPORT

## Owner: PASCO COUNTY FACILITIES MANAGEMENT 7220 Osteen Road New Port Richey, Florida 34653 Phone: (727) 834-3292 Andrew Baxter - abaxter@pascocountyfl.org Developer: PASCO COUNTY SHERIFF'S DEPARTMENT New Port Richey, Florida 34654 Phone: (727) 844-7763 Karl Craford - kcrawford@pascosheriff.org Engineer: J. S. NAGAMIA, P.E. J.S. Nagamia - nagamj@yahoo.com Surveyor: BAY AREA SURVEYING AND MAPPING New Port Richey, Florida 34654 Phone: (727) 856-9690 Richard Shoun - info@bayareasurveying.com





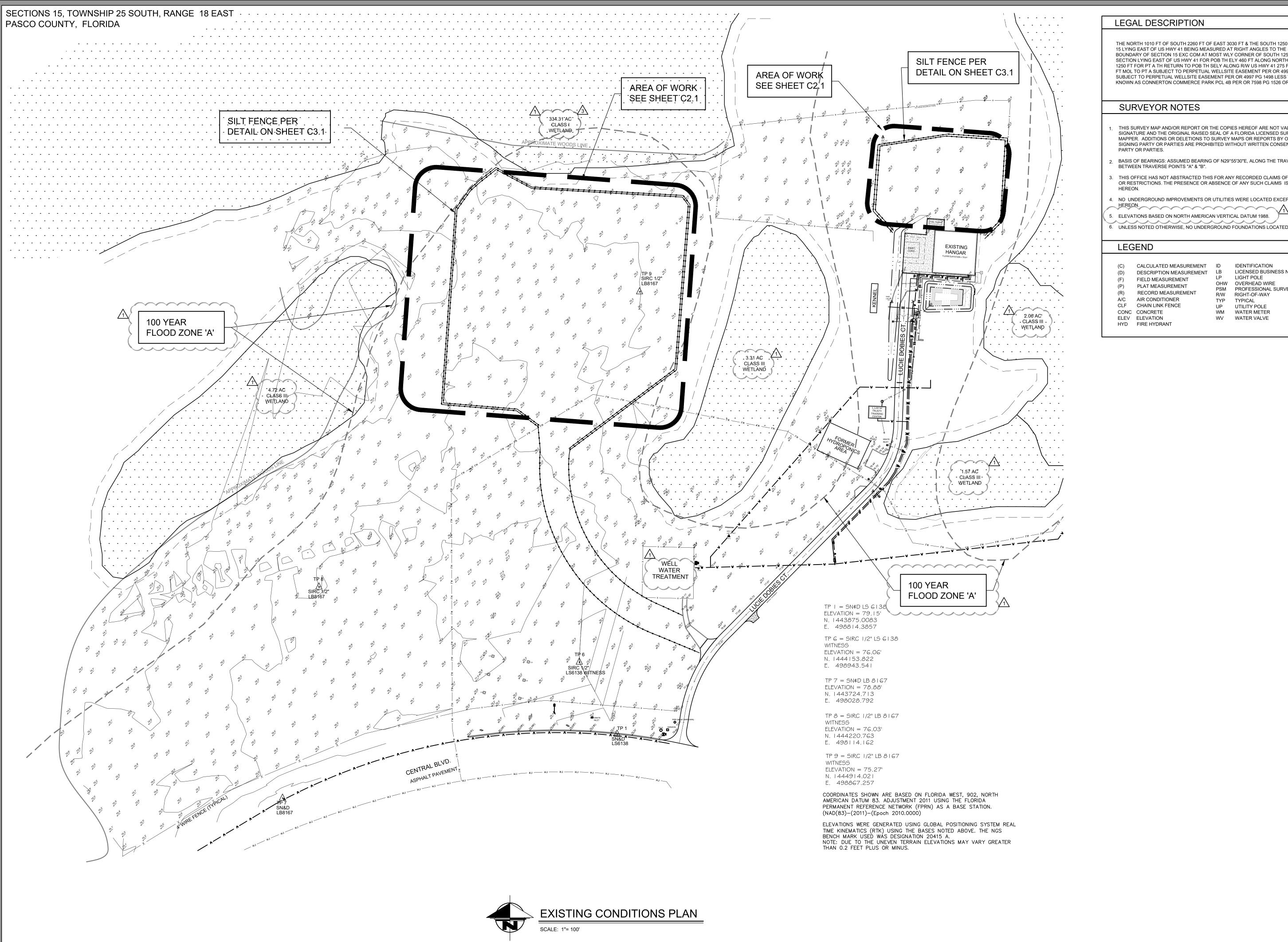
PRELIMINARY / CONSTRUCTION STORMWATER MANAGEMENT PLAN SIMULTANEOUS SUBMITTAL

# J. S. NAGAMIA, P.E.

11104 NORTH 61ST STREET TEMPLE TERRACE, FLORIDA 33617 PHONE: (813) 988-0727



TITLE SHEET



THE NORTH 1010 FT OF SOUTH 2260 FT OF EAST 3030 FT & THE SOUTH 1250 FT OF SECTION 15 LYING EAST OF US HWY 41 BEING MEASURED AT RIGHT ANGLES TO THE SOUTH & EAST BOUNDARY OF SECTION 15 EXC COM AT MOST WLY CORNER OF SOUTH 1250 FT OF SECTION LYING EAST OF US HWY 41 FOR POB TH ELY 460 FT ALONG NORTH LINE OF SOUTH 1250 FT FOR PT A TH RETURN TO POB TH SELY ALONG R/W US HWY 41 275 FT TH NELY 350 FT MOL TO PT A SUBJECT TO PERPETUAL WELLSITE EASEMENT PER OR 4997 PG 1487 & SUBJECT TO PERPETUAL WELLSITE EASEMENT PER OR 4997 PG 1498 LESS THAT POR KNOWN AS CONNERTON COMMERCE PARK PCL 4B PER OR 7598 PG 1526 OR 1716 PG 467

- THIS SURVEY MAP AND/OR REPORT OR THE COPIES HEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING
- BASIS OF BEARINGS: ASSUMED BEARING OF N29°55'30"E, ALONG THE TRAVERSE LINE
- THIS OFFICE HAS NOT ABSTRACTED THIS FOR ANY RECORDED CLAIMS OF TITLE EASEMENTS OR RESTRICTIONS. THE PRESENCE OR ABSENCE OF ANY SUCH CLAIMS IS NOT CERTIFIED
- 4. NO UNDERGROUND IMPROVEMENTS OR UTILITIES WERE LOCATED EXCEPT THOSE SHOWN
- 5. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM 1988.
- 6. UNLESS NOTED OTHERWISE, NO UNDERGROUND FOUNDATIONS LOCATED.
  - IDENTIFICATION LICENSED BUSINESS NUMBER LIGHT POLE

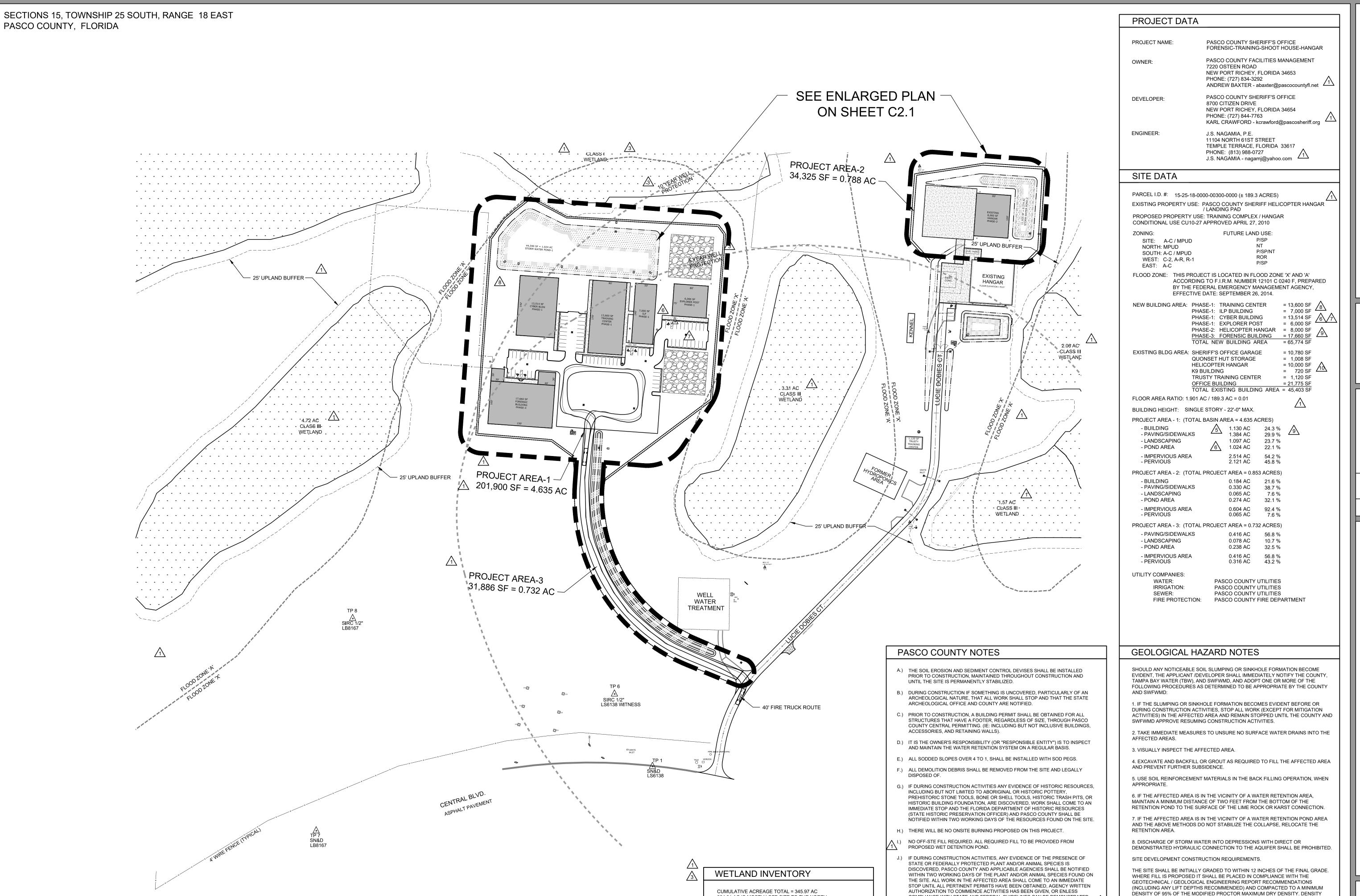
WV WATER VALVE

OHW OVERHEAD WIRE PSM PROFESSIONAL SURVEYOR AND MAPPER R/W RIGHT-OF-WAY TYP TYPICAL UP UTILITY POLE WM WATER METER

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ası

**EXISTING** CONDITIONS PLAN



334.31 AC IS MOSTLY OFF-SITE TO THE NORTH

DEVELOPABLE ACREAGE = 189.3 AC - 11.66 AC = 177.64 AC

- CATEGORY I = ± 334.31.00 AC

- CATEGORY III = ± 11.66 ON-SITE

CATEGORY II = 0.00 AC

**OVERALL SITE PLAN** 

COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

K.) THE UPLAND BUFFER LINE SHALL BE CLEARLY FIELD DEMARCATED PRIOR TO

L.) NO CONSTRUCTION ACTIVITIES INCLUDING: CLEARING, GRADING, GRUBBING

SHALL OCCUR WITHIN THE WETLAND UPLAND BUFFER AS DEPICTED ON THE

ANY CONSTRUCTION ACTIVITIES.

APPROVED PROJECT CONSTRUCTION PLANS.

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Forensic-Training-Shoot Ho

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SITE PLAN

TESTS TO CONFIRM COMPACTION SHALL BE REQUIRED WITHIN THE BUILDING PAD

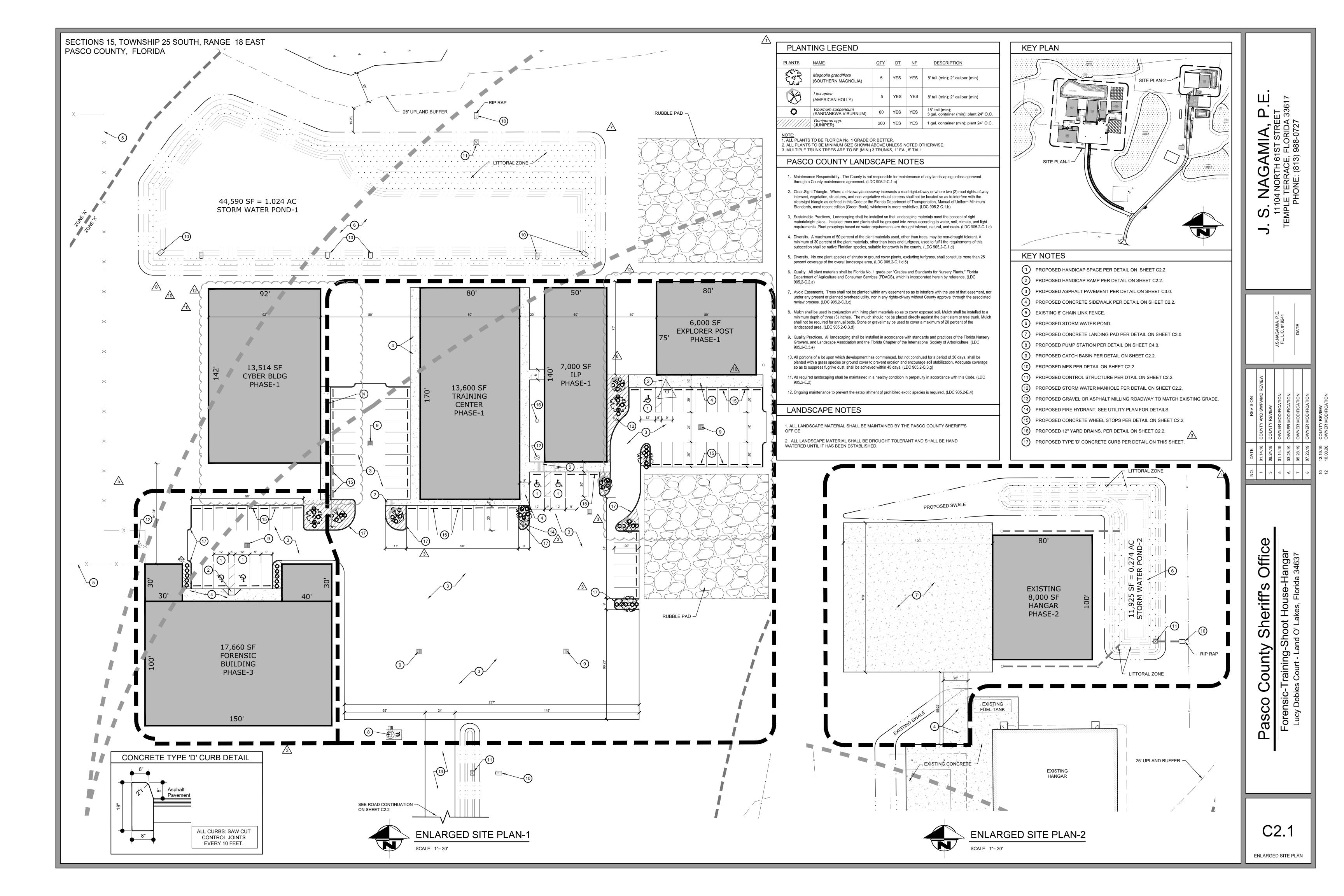
UPON COMPLETION OF THE SITE DEVELOPMENT CONSTRUCTION, A PROFESSIONAL

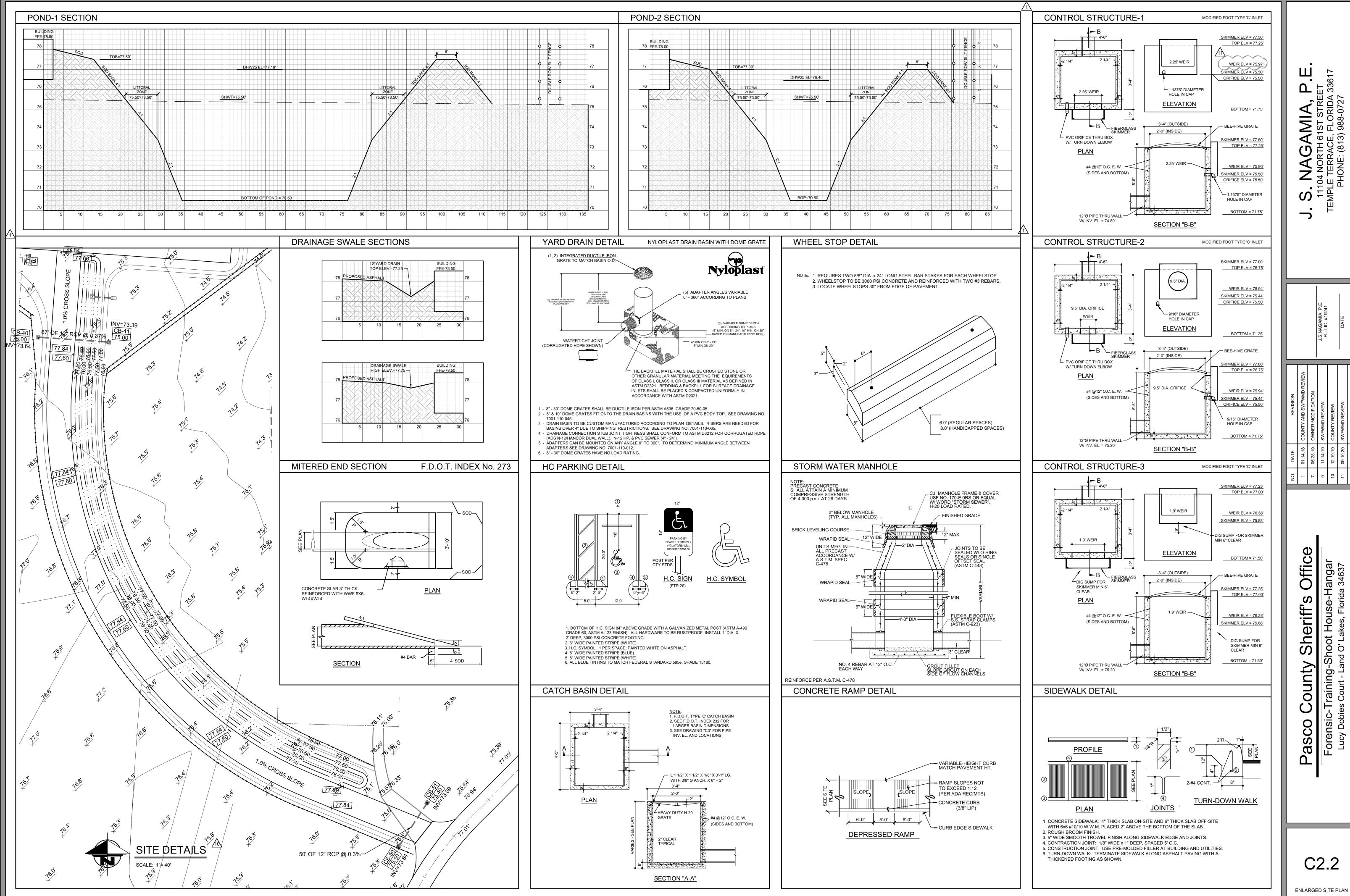
PROJECT, INCLUDING EACH PAD AREA, COMPLIES WITH THE RECOMMENDATIONS

ENGINEER SHALL PROVIDE A CERTIFICATION TO PASCO COUNTY THAT THE

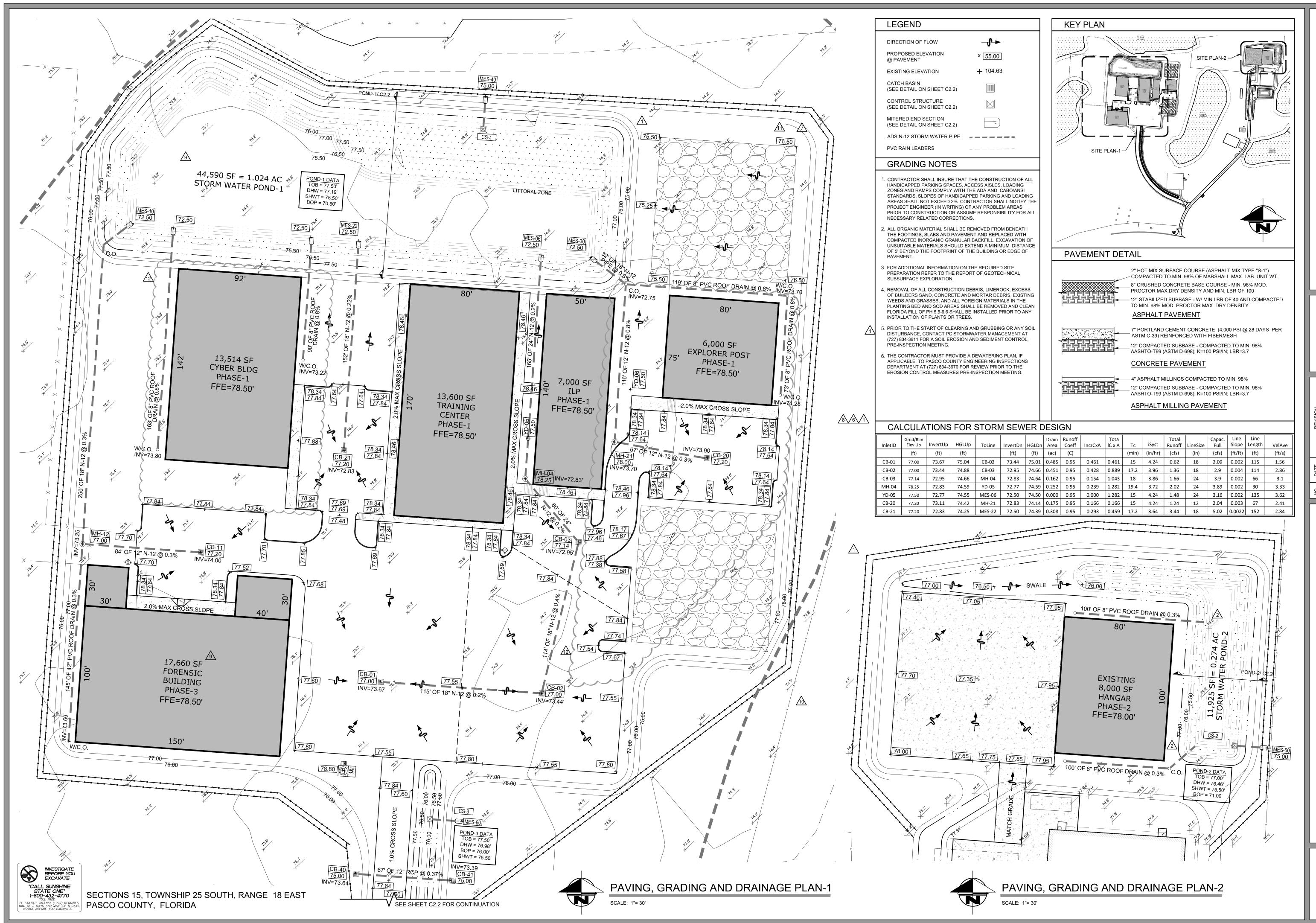
OF THE GEOTECHNICAL / GEOLOGICAL ENGINEERING REPORT.

AREA, BEFORE THE NEXT LIFT IS PLACED.





**□** 33 



J. S. NAGAMIA, P.E.
11104 NORTH 61ST STREET
TEMPLE TERRACE, FLORIDA 33617

COUNTY AND SWFWMD REVIEW
SWFWMD REVIEW
COUNTY REVIEW
OWNER MODIFICATION
OWNER MODIFICATION
OWNER MODIFICATION
OWNER MODIFICATION
SWFWMD REVIEW

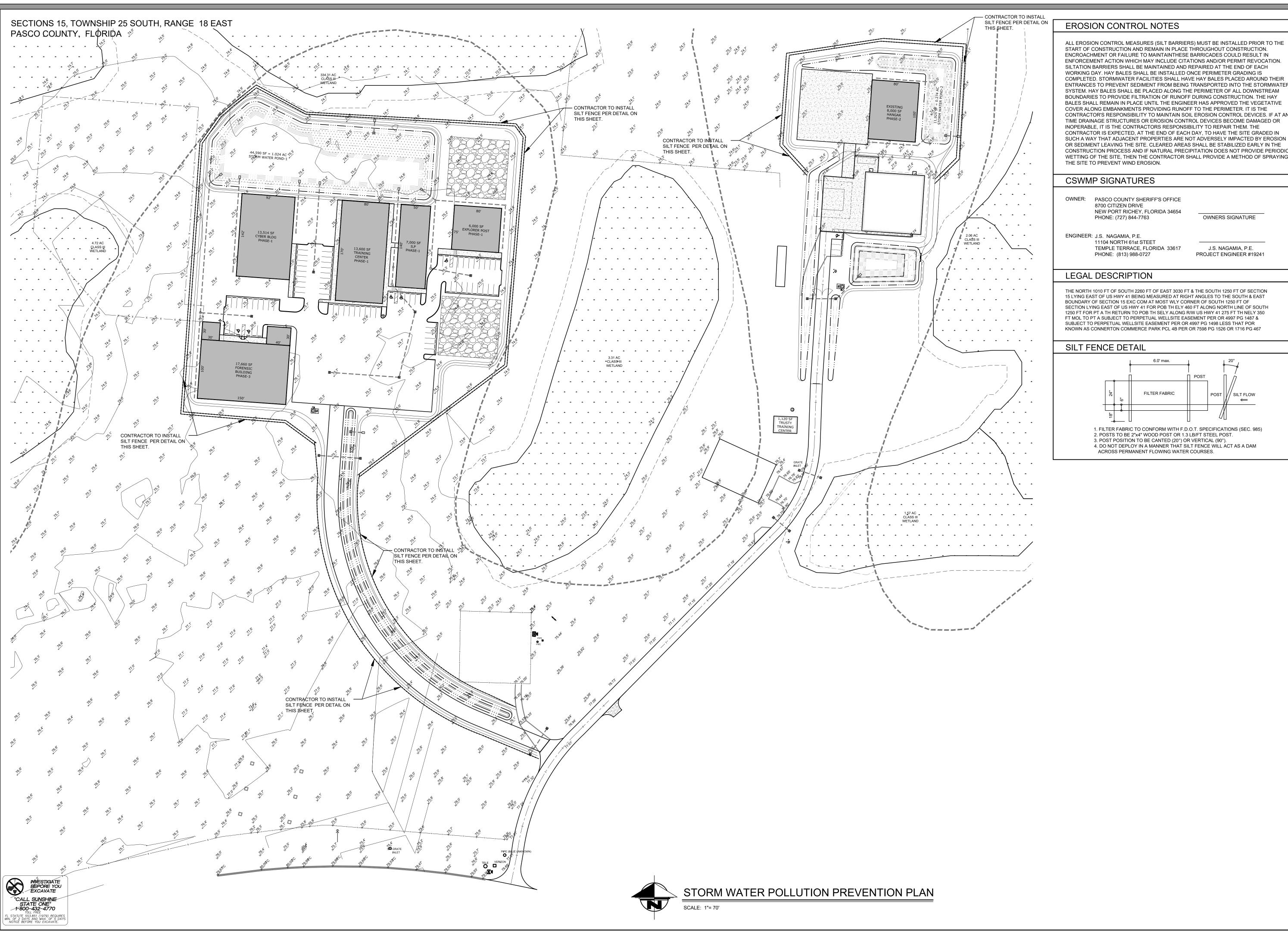
1 01.14.18 COUNTY,
2 05.03.18 SWFWMD
3 08.24.18 COUNTY
5 01.14.19 OWNER N
7 05.28.19 OWNER N
8 07.23.19 OWNER N
9 11.14.19 SWFWME

asco County Sheriff's Office Forensic-Training-Shoot House-Hangar

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PAVING, GRADING AND DRAINAGE PLAN

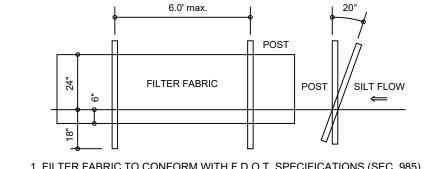


START OF CONSTRUCTION AND REMAIN IN PLACE THROUGHOUT CONSTRUCTION. ENCROACHMENT OR FAILURE TO MAINTAINTHESE BARRICADES COULD RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR PERMIT REVOCATION. SILTATION BARRIERS SHALL BE MAINTAINED AND REPAIRED AT THE END OF EACH WORKING DAY. HAY BALES SHALL BE INSTALLED ONCE PERIMETER GRADING IS COMPLETED. STORMWATER FACILITIES SHALL HAVE HAY BALES PLACED AROUND THEIR ENTRANCES TO PREVENT SEDIMENT FROM BEING TRANSPORTED INTO THE STORMWATER SYSTEM. HAY BALES SHALL BE PLACED ALONG THE PERIMETER OF ALL DOWNSTREAM BOUNDARIES TO PROVIDE FILTRATION OF RUNOFF DURING CONSTRUCTION. THE HAY BALES SHALL REMAIN IN PLACE UNTIL THE ENGINEER HAS APPROVED THE VEGETATIVE COVER ALONG EMBANKMENTS PROVIDING RUNOFF TO THE PERIMETER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SOIL EROSION CONTROL DEVICES. IF AT ANY TIME DRAINAGE STRUCTURES OR EROSION CONTROL DEVICES BECOME DAMAGED OR INOPERABLE, IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR THEM. THE CONTRACTOR IS EXPECTED, AT THE END OF EACH DAY, TO HAVE THE SITE GRADED IN SUCH A WAY THAT ADJACENT PROPERTIES ARE NOT ADVERSELY IMPACTED BY EROSION OR SEDIMENT LEAVING THE SITE. CLEARED AREAS SHALL BE STABILIZED EARLY IN THE CONSTRUCTION PROCESS AND IF NATURAL PRECIPITATION DOES NOT PROVIDE PERIODIC WETTING OF THE SITE, THEN THE CONTRACTOR SHALL PROVIDE A METHOD OF SPRAYING

OWNERS SIGNATURE

J.S. NAGAMIA, P.E. PROJECT ENGINEER #19241

15 LYING EAST OF US HWY 41 BEING MEASURED AT RIGHT ANGLES TO THE SOUTH & EAST BOUNDARY OF SECTION 15 EXC COM AT MOST WLY CORNER OF SOUTH 1250 FT OF SECTION LYING EAST OF US HWY 41 FOR POB TH ELY 460 FT ALONG NORTH LINE OF SOUTH 1250 FT FOR PT A TH RETURN TO POB TH SELY ALONG R/W US HWY 41 275 FT TH NELY 350 FT MOL TO PT A SUBJECT TO PERPETUAL WELLSITE EASEMENT PER OR 4997 PG 1487 & SUBJECT TO PERPETUAL WELLSITE EASEMENT PER OR 4997 PG 1498 LESS THAT POR KNOWN AS CONNERTON COMMERCE PARK PCL 4B PER OR 7598 PG 1526 OR 1716 PG 467

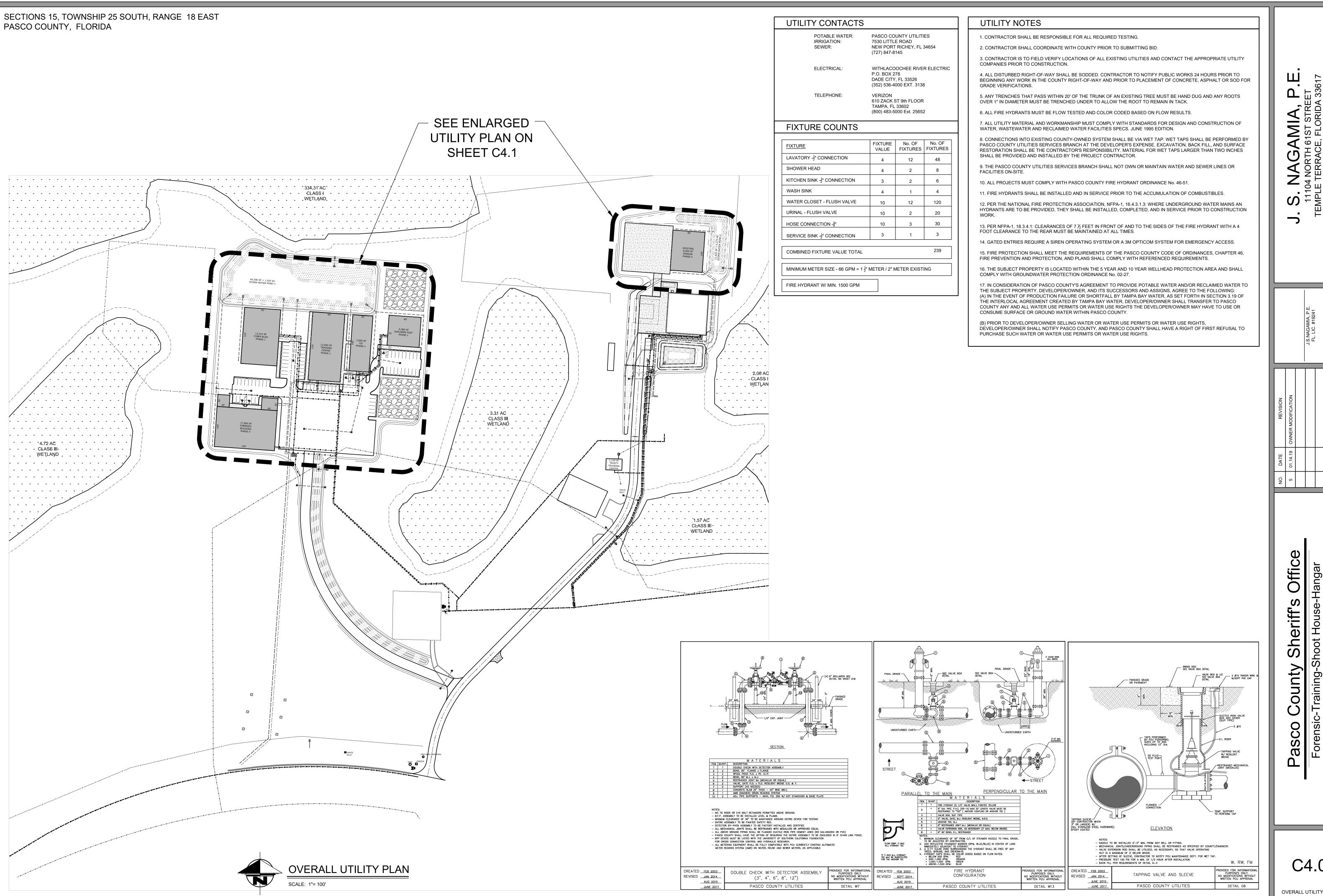


- 2. POSTS TO BE 2"x4" WOOD POST OR 1.3 LB/FT STEEL POST.
- 3. POST POSITION TO BE CANTED (20°) OR VERTICAL (90°). 4. DO NOT DEPLOY IN A MANNER THAT SILT FENCE WILL ACT AS A DAM

Pasco

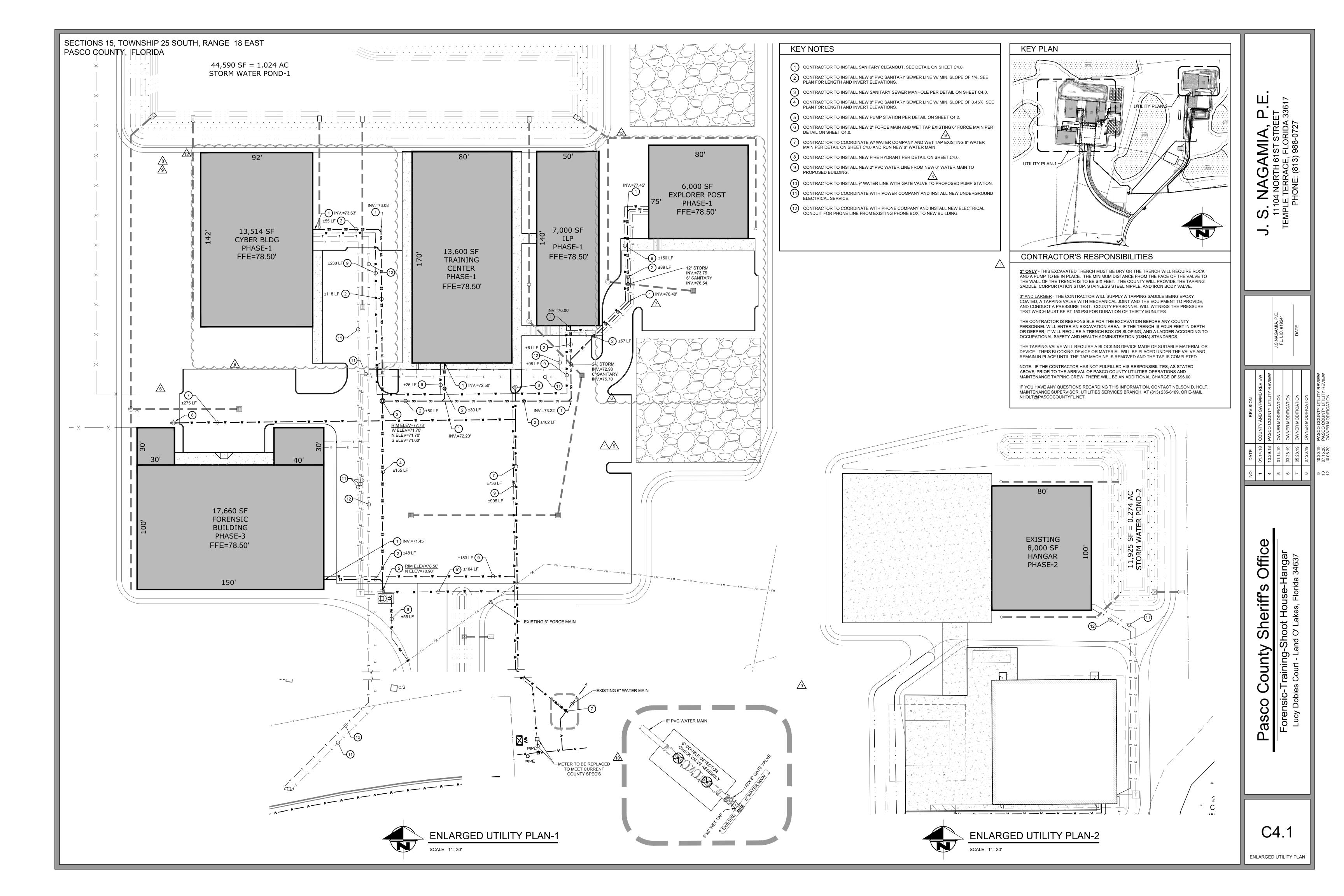
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STORM WATER POLLUTION PREVENTION PLAN



eriff

OVERALL UTILITY PLAN



### PUMP SPECIFICATION

### PUMP DESIGN

The pump(s) shall be capable of handling raw unscreened sewage, storm water, and other similar solids-laden fluids without clogging. The discharge base and elbow shall be permanently installed in the wet well and connected to the discharge piping. In order to prevent binding or separation of the pump from the guide rail system, the pump(s) shall connect to the guide rail base automatically and firmly, guided by one guide bar (two bars optional) extending from the top of the station to the discharge base elbow. Systems using guide cable in lieu of rigid guide bars or pipes shall not be considered acceptable. The sliding guide bracket shall be a separate part of the pumping unit, capable of being attached to standard ANSI or DIN pump flanges so that the base is interchangeable with other pumps and not limited to a specific pump. Non standard flange dimensions shall not be considered acceptable. There shall be no need for personnel to enter the wet well to remove or reinstall the pump(s). A field replaceable Nitrile rubber profile gasket or o-ring shall accomplish positive sealing of the pump flange/guide rail bracket to the discharge elbow. Metal to metal contact between the pump and discharge base elbow as a means of sealing shall not be considered acceptable. No portion of the pump shall bear directly on the floor of the sump. The guide rail system shall be available in an optional non-sparking version, approved by Factory Mutual for use in NEC Class 1, Division 1, Group C&D hazardous locations

## PUMP CONSTRUCTION

Major pump components shall be of gray cast iron, ASTM A-48, Class 40, with smooth surfaces devoid of porosity or other irregularities. All exposed nuts and bolts shall be AISI type 316 stainless steel construction. All metal surfaces coming into contact with the pumped media (other than the stainless steel components) shall be protected by a factory applied spray coating of acrylic dispersion zinc phosphate primer with a high solids two part epoxy paint finish on the exterior of the pump.

Sealing design for the pump/motor assembly shall incorporate metal to metal contact between machined surfaces. Critical mating surfaces where a watertight seal is required shall be machined and fitted with Nitrile or Viton rubber O-rings. Sealing will be the result of controlled compression of rubber O-rings in two planes and O-ring contact of four sides without requiring a specific torque limit. Rectangular cross sectioned gaskets requiring specific torque limits to achieve compression shall not be considered adequate or equal. No secondary sealing compounds shall be used.

Impeller: The impeller shall be of gray cast iron, ASTM A-48, Class 40 and shall be of the semi-open, non-clogging dynamically balanced single vane design capable of passing a minimum of 3.1" diameter spherical solids. The impeller shall have a slip fit into the motor shaft and drive key ,and shall be fastened to the shaft by a stainless steel bolt which is

mechanically prevented from loosening by a positively engaged ratcheting washer assembly.

Self Cleaning Wear Plate: (CB System) The pump shall be equipped with a self cleaning wear plate constructed from gray cast iron, ASTM A-48, Class 40. The wear plate shall be mounted to the volute with four stainless steel/brass adjusting screws to permit close tolerance adjustment between the wear plate and impeller for maximum pump efficiency. The wear plate shall be easily adjustable, without requiring disassembly of the pump. The wear plate shall be designed with a wave shaped inlet and an outward spiral V-shaped groove on the side facing the impeller, to shred and force stringy solids outward from the impeller and through the pump discharge. The use of non-adjustable wear rings s ; ¶ ¿. ° ` -hall not be considered equal.

Pump Volute: The pump volute shall be single piece gray cast iron, ASTM A48, Class 40, non-concentric design with centerline discharge. Passages shall be smooth and large enough to pass any solids which may enter the impeller. Minimum discharge size shall be as specified. The discharge flange design shall permit attachment to standard ANSI or DIN flanges/appurtenances.

Rotating Assembly: The rotating assembly (impeller, shaft and rotor) shall be dynamically balanced such that undue vibration or other unsatisfactory characteristics will not result when the pump is in operation.

**Shaft:** The pump shaft and motor shaft shall be an integral unit. Each shaft shall be of 420 stainless steel material and adequately designed to meet the maximum torque required at any normal start-up condition or operating point in the system. Maximum deflection shall not exceed .002" at the lower seal. Each pump shaft shall have a polished finish and have accurately machined shoulders to accommodate bearings, seals and impeller. Carbon steel or chrome plated shafts shall not be considered adequate or equal.

Mechanical Seals: Each pump shall be equipped with a tandem mechanical shaft seal system consisting of two totally independent seal assemblies. The seals shall operate in a lubricant reservoir that hydro-dynamically lubricates the lapped seal faces at a constant rate. The lower, primary seal unit, located between the pump and the lubricant chamber, shall contain one stationary industrial duty silicon-carbide seal ring and one rotating industrial duty silicon-carbide seal ring. The upper, secondary seal unit, located between the lubricant chamber and motor housing, shall contain one stationary carbon seal ring and one rotating seal ring made from corrosion resistant Cr-steel. Each seal interface shall be held in contact by its own spring system. The seals shall not require routine maintenance, or adjustment, and shall not be dependent on the direction of rotation for proper sealing. Each pump shall be provided with a lubricant chamber for the shaft sealing system which shall provide superior heat transfer and maximum seal cooling. The lubricant chamber shall be designed to prevent overfilling, and to provide lubricant expansion capacity. The drain and inspection plug shall have a positive anti-leak seal, and shall be easily accessible from the outside of the pump. The seal system shall not rely upon the pumped media for lubrication and shall not be damaged when the pump is run dry.

The following seal types shall not be considered acceptable or equal: Seals of proprietary design, or seals manufactured by other than major independent seal manufacturing companies. Seals requiring set screws, pins, or other mechanical locking devices to hold the seal in place, conventional double mechanical seals containing either a common single or double spring acting between the upper and lower seal faces, any system requiring a pressure differential to seat the seal and ensure sealing. Bearings: Each pump shaft shall rotate on permanently lubricated, greased bearings. The upper bearing shall be a deep grooved ball bearing and the lower bearings shall be heavy duty double row angular contact ball bearing. Bearings shall be of sufficient size and properly spaced to transfer all radial and axial loads to the pump housing and minimize shaft deflection. L-10 bearing life shall be a minimum of 50,000 hours at flows ranging from ½ of BEP flow to 1½ times BEP flow (BEP is best efficiency point).

The motor housing shall be gray cast iron, ASTM A48 Class 40 and the motor shall be of the squirrel-cage induction shell type design, housed in an air filled, water tight chamber (NEMA B type) and shall be capable of continuous submerged operation underwater to a depth of 65 feet. The stator windings and stator leads shall be insulated with moisture resistant Class F insulation rated for 155oC (311 oF). The stator shall be heat-shrink fitted into the stator housing. The use of bolts, pins or other fastening devices requiring penetration of the stator housing is unacceptable. The motor shall be designed for continuous duty handling pumped media of 40oC (104 oF) and capable of handling up to 12 evenly spaced starts per hour. The service factor (as defined by NEMA) shall be a minimum of 1.10 (1.0 for M90/4). The motor shall have a voltage tolerance of +/- 10% from

The rotor bars and short circuit rings shall be made of cast aluminum. The motor shall be designed for continuous duty, completely submerged or unsubmerged. For unsubmerged (dry pit) applications, a cooling jacket shall be fitted to the motor to allow the pumped fluid to be circulated around the motor for cooling with the provisions under the "Cooling System" section of this specification. The explosion proof variant shall be FM approved for use in NEC Class I, Division I, Groups C & D hazardous

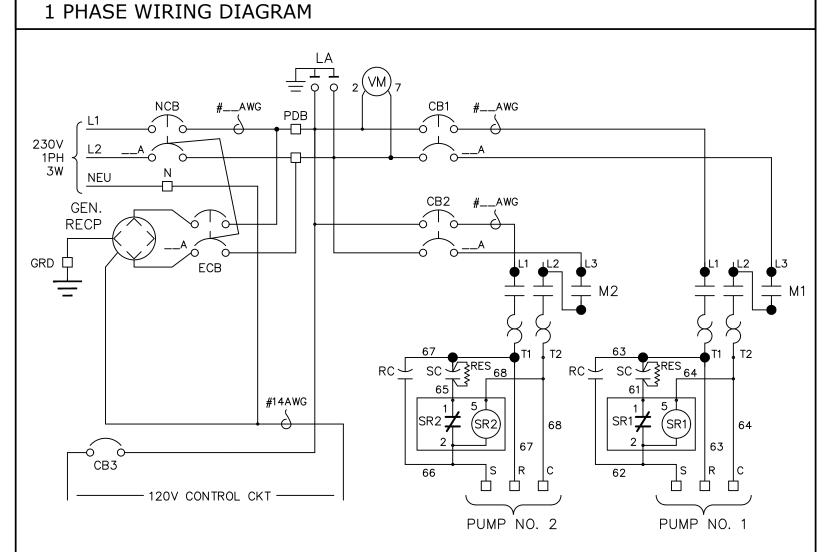
Cooling System: Each unit shall be able to be provided with an adequately designed cooling system. The cooling jacket shall surround the stator housing, thereby providing heat dissipation of the motor. Impeller back vanes shall provide the necessary circulation of the pumped media through the cooling jacket. The impeller and back plate interface shall incorporate dimensional tolerances designed to prevent damaging particles from entering the cooling jacket. In addition, the back of the impeller shall incorporate a cutter design which ensures that stringy or fibrous material can not enter the cooling jacket. The cooling jacket shall be a non-clog design by virtue of these features, and clean out ports on the cooling jacket shall **not** be required. Provisions for external cooling can be provided as an option.

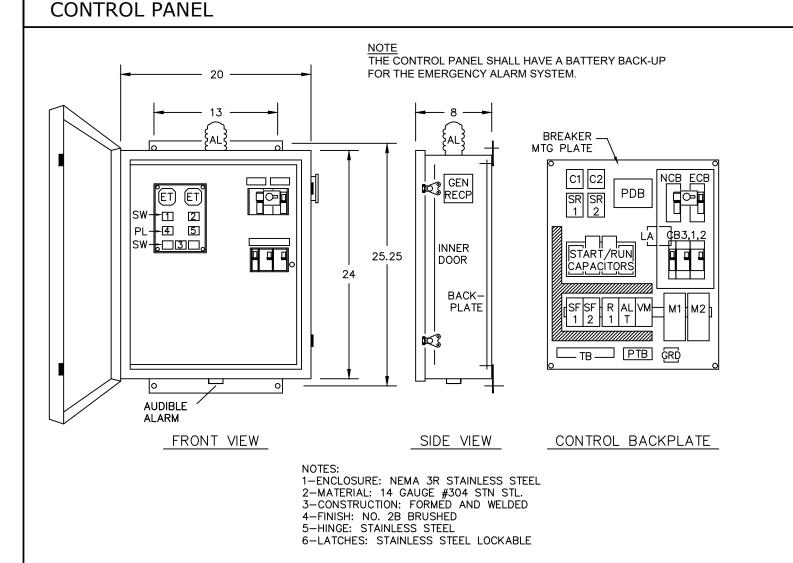
Thermal Protection: Each phase of the motor shall contain a bi-metallic temperature monitor in the upper portion of the stator windings. These thermal switches shall be connected in series and set to open at 140oC +/- 5oC. They shall be connected to the control panel, and used in conjunction with and supplemental to external motor overload protection.

Seal Failure Early Warning System: An electrical probe shall be provided in the oil chamber for detecting the presence of water in the oil chamber. This probe shall be provided for both standard and explosion proof versions. A solid-state device mounted in the pump control panel or in a separate enclosure shall send a low voltage, low amperage signal to the probe. If water enters the oil chamber, the probe shall signal the solid state relay in the control panel. The relay shall then energize a warning light on the control panel, or cause the pump to be shut down (optional). Float switches, dual probes, or any other monitoring devices located in the stator housing are not considered to be early warning systems, and shall not be considered

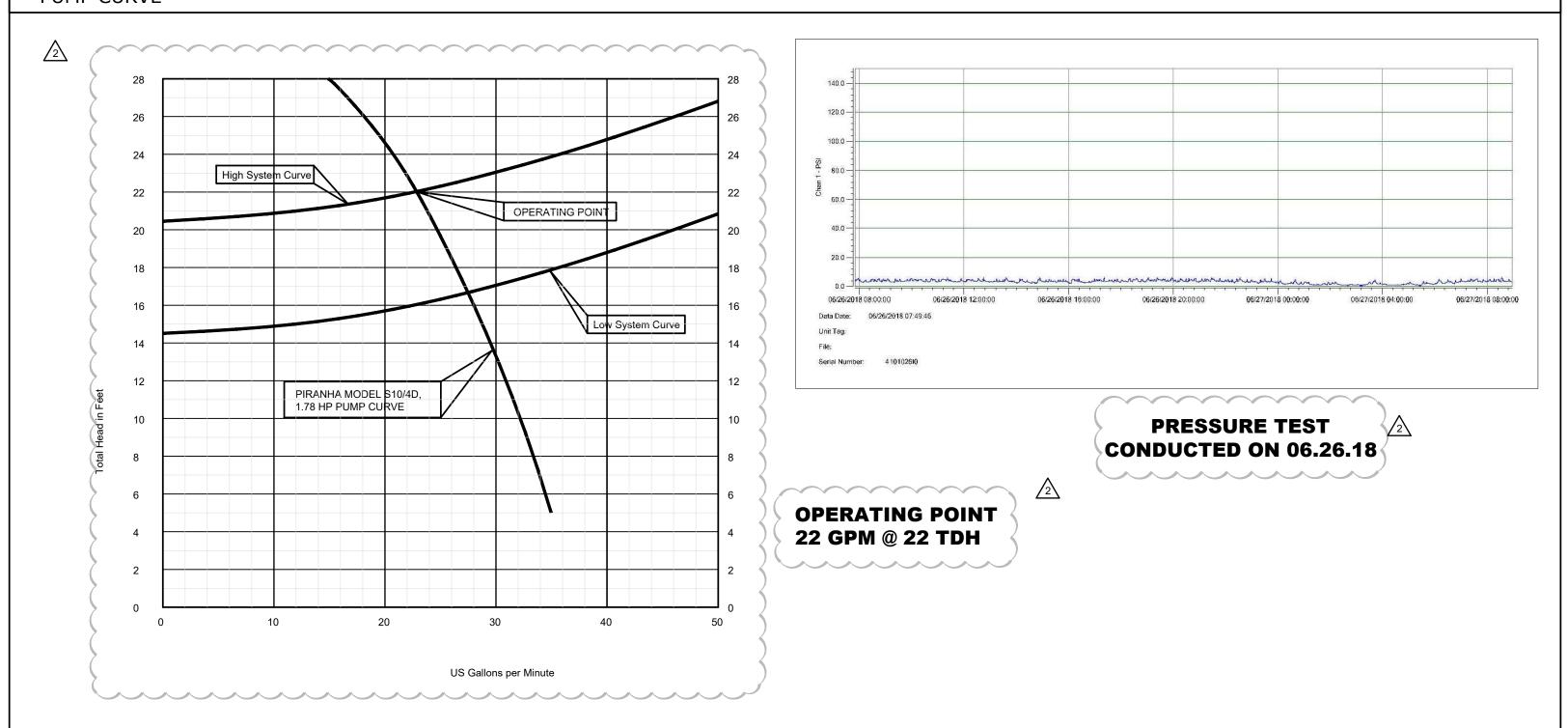
Power Cables: The power cables shall be sized according to NEC and CSA standards and shall be of sufficient length to reach the junction box without requiring splices. The outer jacket of the cable shall be oil resistant chloroprene rubber, and shall be capable of continuous submerged operation underwater to a depth of 65 feet.

Cable Entry/Junction Chamber: The cable entry design shall not require specific torque requirements to insure a watertight seal. The cable entry shall consist of a cylindrical elastomer grommet, flanked by stainless steel washers. A cable cap incorporating a strain relief shall mount to the cable entry boss compressing the grommet ID to the cable while the grommet OD seals against the bore of the cable entry. The entry as part of the motor shall be FM approved for use in NEC Class I, Division I, Groups C & D hazardous locations. As an option a removable explosion proof junction chamber shall be available. The junction chamber with terminal board shall fit to the cable entry boss. The junction chamber shall be equipped with a removable cover allowing for cable removal or voltage change without opening the motor. The junction chamber shall be sealed from the motor by means of a sealing gland.

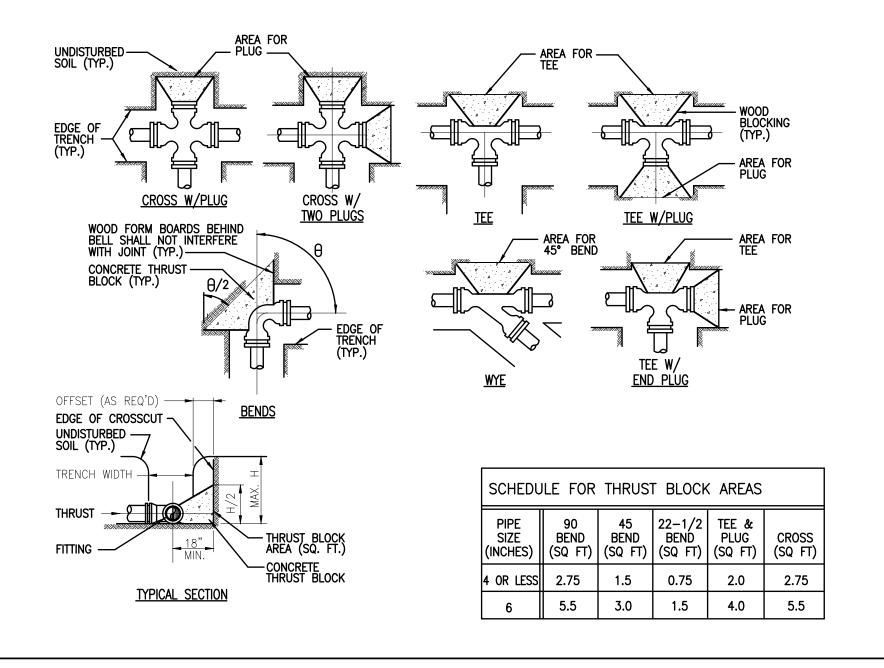




PUMP CURVE



TYPICAL THRUST BLOCK DETAILS



- 1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL
- 2. EXTEND THRUST BLOCK FULL LENGTH OF FITTINGS. JOINTS SHALL NOT BE COVERED BY THRUST BLOCKS. FITTINGS SHALL BE PROTECTED BY POLYETHYLENE FILM
- 3. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCKS, AS REQUIRED. 4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS

(8 MIL.) PRIOR TO PLACING CONCRETE THRUST BLOCK.

- REQUIRED, TO SUITE THE SPECIFIC FITTING ARRANGEMENT. 5. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE AND/OR SOIL RESISTANCE BEARING IS LESS
- 6. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVE.

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PUMP STATION DETAILS

### TESTING SCHEDULE GUIDE— REQUIREMENTS ITEM TEST TYPE TEST I.D. FREQUENCY **EMBANKMENT** MAXIMUM DENSITY AASHTO T180 N/A PER SOIL TYPE OPTIMUM MOISTURE ASTM D1557 ONE PER 2,500 S.F. HORIZONTALLY \*; FIELD DENSITY AASHTO T191, T204, 95% OF MAXIMUM DENSITY ASTM D1556, D2937, D2922 ALTERNATING LIFTS (12") AASHTO T180 UTILITY TRENCH N/A PER SOIL TYPE MAXIMUM DENSITY BACKFILL UNDER OPTIMUM MOISTURE ASTM D1557 AASHTO T191, T204, T238 ONE PER 2,500 S.F. HORIZONTALLY \*; ROADWAYS AND FIELD DENSITY 95% OF MAXIMUM DENSITY STRUCTURES EVERY 2' VERTICALLY D2922 - AT LEAST ONE FOR EACH PIPE RUN ASTM D1556, D2937, D2922 BACKFILL OF AASHTO T180 PER SOIL TYPE MAXIMUM DENSITY N/A STRUCTURES OPTIMUM MOISTURE ASTM D1557 ONE PER 2,500 S.F. EVERY 2' VERTICALLY AASHTO T191, T204, 95% OF MAXIMUM DENSITY FIELD DENSITY ASTM D1556, D2937, D2922 SUBGRADE BEARING VALUES LBR - FLA. D.O.T. LBR = 40 MIN.ONE PER SOIL TYPE CHECK POINT LBR AT 500 L.F. HORIZONTALLY AASHTO T180 N/A MAXIMUM DENSITY ONE PER SOIL TYPE ASTM D1557 OPTIMUM MOISTURE AASHTO T191, T238 98% OF MAXIMUM ONE PER 2,500 S.F. FIELD DENSITY & HORIZONTALLY ASTM D1556, D2922 THICKNESS BASE BEARING VALUES LBR - FLA. D.O.T. LBR = 100 MIN.ONE PER SOURCE OR AS MATERIAL CHANGES CHECK POINT LBR AT 500 L.F. HORIZONTALLY AASHTO T180 ONE PER SOURCE MAXIMUM DENSITY ASTM D1557 OPTIMUM MOISTURE THICKNESS AASHTO T191, T238 98% OF MAXIMUM ONE PER 2,500 S.F. FIELD DENSITY ASTM D1556, D2922 HORIZONTALLY ONE PER SOURCE PER SPECIFICATIONS AASHTO T27, T98 AASHTO T90 GRADATION ASTM C136, D423, D424 ATTERBURG LIMITS SOIL CEMENT BASE PORTLAND CEMENT ASSOC. ONE PER SOIL TYPE PER SPECIFICATIONS SPECIFICATIONS MIX DESIGN (TO BE USED IF MAXIMUM DENSITY AASHTO T134 N/A ONE PER SOIL TYPE DAILY SEPARATION BETWEEN OPTIMUM MOISTURE STANDARD) PORTLAND CEMENT ASSOC. 300 PSI AT 7-DAYS TYPE DAILY \*\* SHWT AND BOTTOM COMPRESSIVE STRENGTH ONE SET OF 3 PER SOIL TYPE SPECIFICATIONS OF BASE IS < 1.5') SPECIMENS PORTLAND CEMENT ASSOC 450 PSI AT 21-DAYS TEST CORES ONE SET OF 3 PER SOIL TYPE SPECIFICATIONS SET OF COMPRESSIVE \*\* ONE PER 2,500 S.F. AASHTO T191, T238 95% OF MAXIMUM FIELD DENSITY & HORIZONTALLY ASTM D1556, D2922 THICKNESS AASHTO T164 ASTM D2172 ASPHALTIC CONCRETE MATERIALS QUALITY BITUMEN CONTENT GRADATION PER SPECIFICATIONS ONE PER DAY ASTM 02950-81 ONE PER 2,500 S.F. HORIZONTALLY FIELD DENSITY 95% OF LAB DENSITY COMPACTION LOS ANGELES 95% OF MARSHALL MAXIMUM UNIT AASHTO T96-77

PER SPECIFICATIONS

PER SPECIFICATIONS

ONE PER SOURCE

ONE PER 2,500 S.F

\* THE CONTRACTOR SHALL NOT PAVE OVER SOIL CEMENT BASE UNTIL A 30-DAY CURING HAS ELAPSED. \*\* MAXIMUM STRENGTH LIMITS, AS ESTABLISHED BY SOILS TESTING COMPANY, SHALL NOT BE EXCEEDED. \*\*\* SHOULD ANY OF THE INFORMATION PROVIDED HEREIN CONFLICT WITH EITHER THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER, AND/OR THE GEOTECHNICAL REPORT, THEN THE AFOREMENTED RECOMMENDATIONS

ASTM C131-81

ARRASION

THICKNESS

WILL SUPERCEDE THIS "TESTING SCHEDULE GUIDE".

## - GENERAL NOTES-

- A. THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO BIDDING AND DETERMINE THE EXACT LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SUNSHINE @ (800)432-4770 AND THE UTILITY COMPANIES IN THE AREA AT LEAST 48 HOURS BEFORE COMMENCING WORK. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION UNLESS SPECIFICALLY EXEMPTED THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
- B. ALL WORK SHALL BE LEFT IN SUCH A MANNER THAT IT IS SAFE TO THE PUBLIC. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES. SIGNS AND BARRICADES TO BE ACCORDING TO F.D.O.T. MANUAL OF SAFE PRACTICES; REFERENCE F.D.O.T. INDEXES 600 THROUGH 650 AND 17349 PER ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION OF D.C. INDEXES 100 THROUGH 116. THERE WILL BE NO ON-SITE BURNING.
- ADDITIONAL CONTROL AND SCOPE OF WORK: THE CONTRACTOR SHALL PROVIDE SPRING ENGINEERING, INC. WITH AS-BUILT DRAWINGS AND SURVEYS UPON COMPLETION OF ALL WORK.
- D. A SURVEYOR SHALL DO ALL BUILDING LAYOUT, CURB & ROADWAY, AND GRADE STAKING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING ANY WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSULT WITH THE ENGINEER FOR MAKING ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS; HOWEVER, THIS IN NO WAY RELIEVES THE CONTRACTOR OF HIS RESPONSIBILITY FOR CONSTRUCTING THE PROJECT TO ACCOMPLISH THE INTENT OF THE PLANS. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929. MEAN SEA LEVEL = 0.00.
- PERMITS: NO CONSTRUCTION SHALL COMMENCE UNTIL ALL APPLICABLE PERMITS HAVE BEEN APPROVED. A RIGHT-OF-WAY USE PERMIT IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY WITHIN THE RIGHT-OF-WAY, AND NO IRRIGATION SYSTEM OR LANDSCAPING SHALL INSTALLED IN ANY PUBLIC RIGHT-OF-WAY WITHOUT ISSUANCE OF APPROPRIATE PERMIT. ALL PROPOSED SIGNS MUST BE APPLIED FOR, APPROVED AND PERMITTED ON AN INDIVIDUAL BASIS APART FROM ANY ULTIMATELY APPROVED SITE PLAN; APPROVAL OF THIS SITE PLAN DOES NOT CONSTITUTE APPROVAL OF ANY SIGN.
- F. STRIPING: HANDICAPPED PARKING SPACES WILL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR OTHER APPLICABLE STANDARDS ALL ON-SITE PARKING SPACES SHALL BE STRIPED AND SIGNED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. PARKING SPACES, DIRECTIONAL ARROWS, AND STOP BARS SHALL BE STRIPED IN WHITE. IT SHALL BE THE OWNER/DEVELOPERS RESPONSIBILITY TO PROPERLY SIGN AND STRIPE THE SITE IN ACCORDANCE WITH APPLICABLE STANDARDS.
- CONCRETE: CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. PORTLAND CEMENT SHALL CONFORM TO ASTM C150. AGGREGATE SHALL CONFORM TO ASTM C33. WIRE FABRIC SHALL CONFORM TO ASTM A185. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-94. SIX INCH MESH, 10 GAUGE WIRE FABRIC SHALL BE USED IN SLABS THICKER THAN FOUR INCHES. STANDARD THICKNESS SHALL BE FOUR INCHES, EXCEPT AT DRIVEWAYS WHERE THE THICKNESS SHALL BE SIX INCHES SURFACES SHALL BE FREE FROM TROWEL OR MACHINE MARKS. SURFACE VARIATIONS SHALL NOT EXCEED 1/4 INCH UNDER A 10 FOOT STRAIGHTEDGE EDGE OF SLABS SHALL HAVE A SMOOTH FINISH. SIDEWALKS SHALL HAVE A BROOM FINISH.
- UTILITIES: ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE BASE AND SURFACE COURSES ARE CONSTRUCTED. SITE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL UTILITIES IN ACCORDANCE WITH LOCAL CODES, WHETHER INDICATED ON THE PLANS OR NOT. CHECK WITH THE LOCAL GOVERNMENT PRIOR TO BID SUBMISSION. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MINIMIZE INTERRUPTIONS OF EXISTING UTILITY SERVICE DURING CONSTRUCTION AND CONNECTION OF PROPOSED SERVICE LINES. CONFLICTS BETWEEN WATER LINES AND STORM/SANITARY SEWER SYSTEMS ARE TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY. CONTRACTOR SHALL MAINTAIN A MINIMUM OF TEN FOOT (10' HORIZONTAL SEPARATION OR 18" VERTICAL SEPARATION WHERE UNDERGROUND SERVICES CONFLICT. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES AND ALL LENGTHS ARE PLUS OR MINUS.
- WATERMAINS: ALL NEW WATERMAINS, PIPES, FITTINGS, VALVES, PACKING AND JOINTING MATERIALS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS AND THE STATE PLUMBING CODE AND SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS AND/OR THE MANUFACTURER'S RECOMMENDED PROCEDURES. ALL WATER MAIN PIPES AND FITTINGS SHALL CONTAIN NO MORE THAN FIGHT PERCENT LEAD ALL STONES FOUND IN WATER MAIN TRENCHES SHALL BE REMOVED TO A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF THE PIPE. CONTINUOUS AND UNIFORM BEDDING TO BE PROVIDED AND BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AND FITTINGS AND TWELVE INCHES (12") ABOVE THE TOP OF THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE. ALL NEW WATER MAINS SHALL BE PRESSURE AND LEAK TESTED PER AWWA STANDARD C600 AND DISINFECTED PER AWWA STANDARD C651 AND RULE 62.555.345, F.A.C.. ALL FOUR INCH (4") AND LARGER WATER MAINS TO BE C-900 P.V.C. AND ALL WATER MAINS SMALLER THAN 4" TO BE SCHEDULE 40 P.V.C. WATER MAIN TO BE 2.5' (MIN.) BELOW PROPOSED GRADE.
- J. SANITARY SEWERS: ALL SANITARY SEWER MAINS TO BE SDR-35 PVC.
- K. TREE BARRICADES AND EROSION CONTROL: ALL EROSION CONTROL MEASURES (SILT BARRIERS) AND TREE BARRICADES MUST BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND REMAIN IN PLACE THROUGHOUT CONSTRUCTION. ENCROACHMENT OR FAILURE TO MAINTAIN THESE BARRICADES COULD RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR PERMIT REVOCATION. SILTATION BARRIERS SHALL BE MAINTAINED AND REPAIRED AT THE END OF EACH WORKING DAY HAY BALES SHALL BE INSTALLED ONCE PERIMETER GRADING IS COMPLETED. STORMWATER FACILITIES SHALL HAVE HAY BALES PLACED AROUND THEIR

- ENTRANCES TO PREVENT SEDIMENT FROM BEING TRANSPORTED INTO THE STORMWATER SYSTEM. HAY BALES SHALL BE PLACED ALONG TH PERIMETER OF ALL DOWNSTREAM BOUNDARIES TO PROVIDE FILTRATION OF RUNOFF DURING CONSTRUCTION. THE HAY BALES SHALL REMAIN IN PLACE UNTIL THE ENGINEER HAS APPROVED THE VEGETATIVE COVER ALONG EMBANKMENTS PROVIDING RUNOFF TO THE PERIMETER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SOIL EROSION CONTROL DEVICES. IF AT ANY TIME DRAINAGE STRUCTURES OR EROSION CONTROL DEVICES BECOME DAMAGED OR INOPERABLE, IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR THEM. THE CONTRACTOR IS EXPECTED, AT THE END OF EACH DAY, TO HAVE THE SITE GRADED IN SUCH A WAY THAT ADJACENT PROPERTIES ARE NOT ADVERSELY IMPACTED BY EROSION OR SEDIMENT LEAVING THE SITE. CLEARED AREAS SHALL BE STABILIZED EARLY IN THE CONSTRUCTION PROCESS AND IF NATURAL PRECIPITATION DOES NOT PROVIDE PERIODIC WETTING OF THE SITE, THEN THE CONTRACTOR SHALL PROVIDE A METHOD OF SPRAYING THE SITE TO PREVENT WIND EROSION. CONTRACTOR SHALL CLEAR ONLY THAT AREA SHOWN TO BE CLEARED ON THE PLAN. CARE SHALL BE TAKEN TO DISTURB THE EXISTING VEGETATION IN ONLY THOSE AREAS UNDER CONSTRUCTION AT THAT TIME. ALL CLEAR SITE AREAS SHALL BE KEPT FREE OF ANY SIGNAGE, PLANTINGS, TREES, ETC. IN EXCESS OF THREE-AND-A-HALF (3 1/2) FEET IN HEIGHT. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE LOCAL GOVERNMENT. ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE PRUNED IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING
- GRADING AND BACKFILL: THE GRADING SHOWN ON THESE PLANS IS INTENDED TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR IS EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR TO GRADE PROPERTY SO THAT GRADING MEETS ADJACENT PROPERTY AND RIGHT — OF — WAY ELEVATIONS. CONTRACTOR SHALL NOTIFY THE OWNER AND SEI PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED. ALL FILL MATERIAL SHALL BE SOIL OR SOIL-ROCK MIXTURE WHICH IS FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCE. IT SHALL BE PREDOMINATELY GRANULAR WITH A MAXIMUM PARTICLE SIZE OF TWO INCHES AND A PLASTICITY INDEX OF 12 OR LESS. ALL BACKFILL WITHIN THE ROADWAY. OVER ANY PIPE THAT IS TO BE INSTALLED UNDER THE ROADWAY OR WITHIN EMBANKMENTS, ETC. IS TO BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO AND PER F.D.O.T. SPECIFICATIONS, SECTION 125.8.3, LATEST EDITION.
- DRAINAGE: ALL DRAINAGE STRUCTURES MUST BE CONSTRUCTED PER FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN STANDARDS. MITERED END SECTION AS PER D.O.T. INDEX NO. 272 AND NO. 273. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MEASUREMENTS ARE TO CENTER OF STRUCTURES. OWNER SHALL MAINTAIN RETENTION AREAS.
- N. DRIVES: ALL DRIVES SHALL BE IN ACCORDANCE WITH FDOT REQUIREMENTS.
- PAVING: ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTH TRANSITION WITH NO BREAKS IN GRADE AND NO STEEP OR REVERSE CROSS SLOPES. AT APPROACHES TO AND INTERSECTIONS WITH EXISTING GRADES, T MAY BE NECESSARY AND ADVISABLE TO MAKE MINOR LOCAL FIELD ADJUSTMENTS TO ACCOMPLISH THE PURPOSES OUTLINED. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE POSITIVE DRAINAGE AND SEI SHALL BE CONSULTED SO THAT WE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS. ASPHALTIC CONCRETE TYPE SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, FOR MATERIALS AND METHOD OF CONSTRUCTION. ALL ROADWAY BASES SHALL BE PRIMED AND, IF REQUIRED, A TACK COAT SHALL BE APPLIED. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. TEST REPORTS FOR SUBGRADE, BASE, ASPHALT AND BASE CORE AND CONCRETE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. SEE SPECIFICATIONS FOR SPECIFIC TESTING REQUIREMENTS.
- P. LANDSCAPING: ALL PLANT MATERIALS USED SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER AS GIVEN IN GRADES AND STANDARDS FOR NURSERY PLANTS, PART I, 1963 AND PART II, STATE OF FLORIDA DEPT. OF AGRICULTURE, TALLAHASSEE. ALL PLANT MATERIAL WILL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY ARCHITECT. PLANTS AND TREES ARE LOCATED BY SCALING OFF PLANS. INSTALLER SHALL INSPECT SITE PRIOR TO BEGINNING PLANTING OPERATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES. INSTALLER SHALL IMMEDIATELY NOTIFY ARCHITECT IF ANY CONFLICTS OCCUR BETWEEN PROPOSED LOCATION OF TREES CALLED FOR ON THE PLANS AND ANY UNDERGROUND UTILITIES OR SUBSURFACE STRUCTURES. INSTALLER SHALL NOTIFY ARCHITECT OF ANY CONDITION THAT WOULD PREVENT THE HEALTHY GROWTH OF PLANT SPECIES CALLED FOR ON THESE PLANS PRIOR TO CONTRACT AWARD. ALL LANDSCAPE AREAS AND GRADED SWALES ARE TO BE SODDED WITH FLORATAM UNLESS NOTED OTHERWISE. THE GROUND IS TO BE PROPERLY PREPARED AND FERTILIZED PRIOR TO LAYING SOD. THERE SHALL BE A CRISP LINE SEPARATING PLANT BEDS FROM ALL SOD AREAS. SOD TO BE STAKED AS NECESSARY TO PREVENT FROSION. CONTRACTOR TO SOD ALL DISTURBED AREAS DUE TO PROPOSED CONSTRUCTION.
- Q. PLANTING SOILS: ALL PLANTING PITS SHALL BE BACKFILLED WITH TOPSOIL MIX CONSISTING OR FIFTY (50) PERCENT SAND, FORTY (40) PERCENT MUCK AND TEN (10) PERCENT HUMUS OR PEAT, BY VOLUME, WELL MIXED WITH APPRÒPRÍATE FERTILIZER ADDED.
- MULCH: ALL EXPOSED AREAS IN PLANTING BEDS, INCLUDING HEDGE ROWS, SHALL BE KEPT WEED FREE AND MULCHED TO A MINIMUM OF THREE (3) INCHES DEPTH, EXCEPT THAT TWO (2) INCHES SHALL BE REQUIRED IN ANNUAL BEDS. MULCH SHALL BE REPLENISHED, ÀS NEEDED, TO MEET THIS REQUIREMENT.

## SEPARATION FOR WATER/—— SEWER CONFLICTS

SANITARY SEWERS, FORCE MAINS AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER

WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING.

WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER THE WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES AND 10 FEET BETWEEN JOINTS SHALL BE

ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE

SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER & WATER MAIN IN PARALLEL INSTALLATION WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN 10 FOOT HORIZONTAL SEPARATION THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL F CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES.
THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE AS REQUIRED BY THE PERMITTING UTILITIES DEPARTMENT.

- All utility construction shall comply with the Pasco County Standards for Design and Construction of Water and Wastewater Facilities Specifications,
- All on—site water and sewer facilities shall be owned and maintained by the owner-developer.
- Installation of fuel storage tanks requires review and approval by the Fire
- All proposed signs must be applied for, approved, and permitted on an individual basis apart from any ultimately—approved site plan. Approval of
- this site plan does not constitute approval of any sign age. Handicap parking spaces will be properly signed and striped in accordance
- with Florida Statute 316, the Manual on Uniform Traffic Control Devices, or other applicable standards.
- 6. The architect—engineer certifies that the site has been designed in accordance with the Americans with Disabilities Act.
- All on-site parking spaces will be striped and signed in accordance with the manual on Uniform Traffic Control Devices, latest edition. Parking spaces, directional arrows, and stop bars shall be striped in WHITE. shall be the owner/developers' responsibility to properly sign and stripe the
- The owner/developer acknowledges that this approval does not include any work in County right-of-way. All right-of-way work shall be a function of
- All clear—site areas shall be kept free of any sign age, plantings, trees,
- State right-of-way without issuance of appropriate right-of-way Use
- 13. If a project site contains an easement, especially a power company easement, a letter of no objection is required from the easement holder. by signing and sealing this plan the engineer of record is attesting that

## -PASCO COUNTY NOTES-

- Marshal and the issuance of a separate building permit. Approval of the site plan does not constitute approval of the location of the fuel tanks.

- site in accordance with applicable standards.
- an approved Pasco County Right-of-Way Use Permit.
- etc. in excess of three-and-a-half (3x) feet in height. 10. No irrigation system or landscaping shall be installed in any County or
- 11. The owner/developer acknowledges that the site and its subsequent building permits shall comply with all rezoning/MPUD/PUD conditions.
- 12. All structures, including buffer walls, retaining walls, signage, etc. require separate building permits.
- he/she has identified and accurately shown all easements of record on the

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GENERAL NOTES